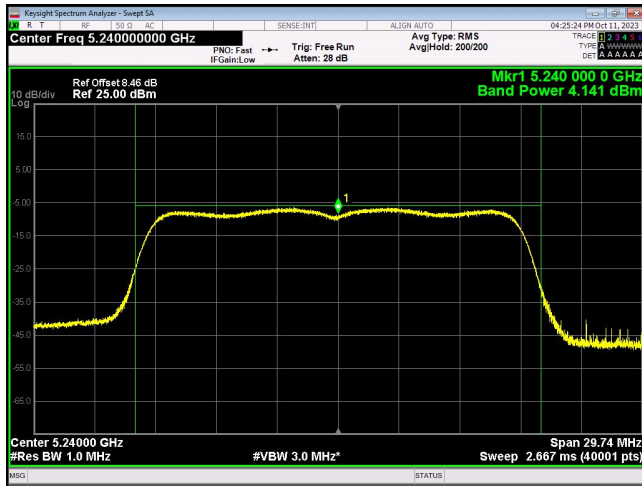
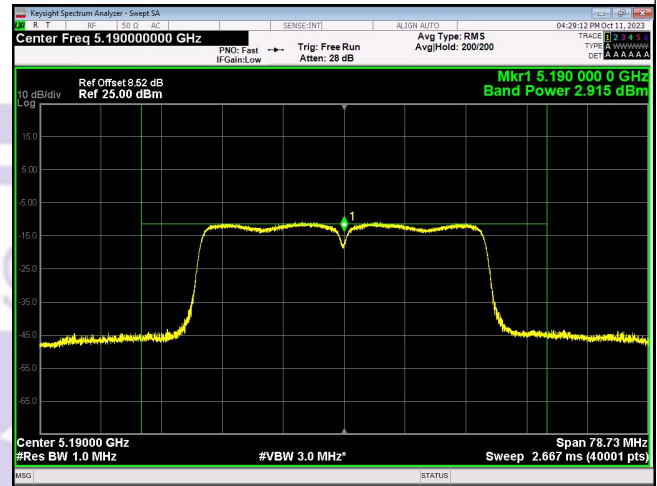


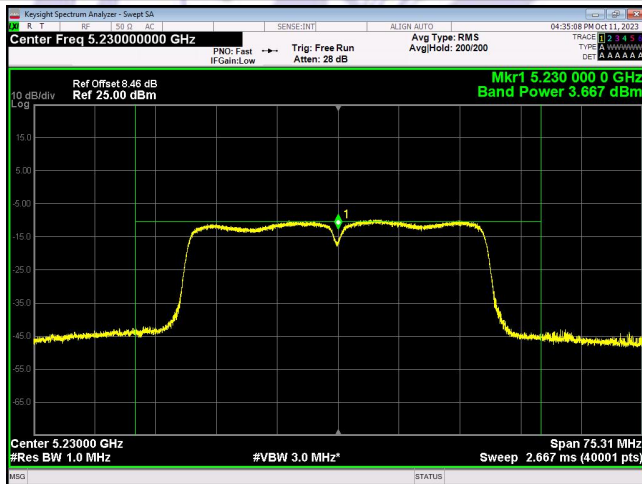
Conducted AVG output power IEEE 802.11ac_20_Channel 36_Antenna 0



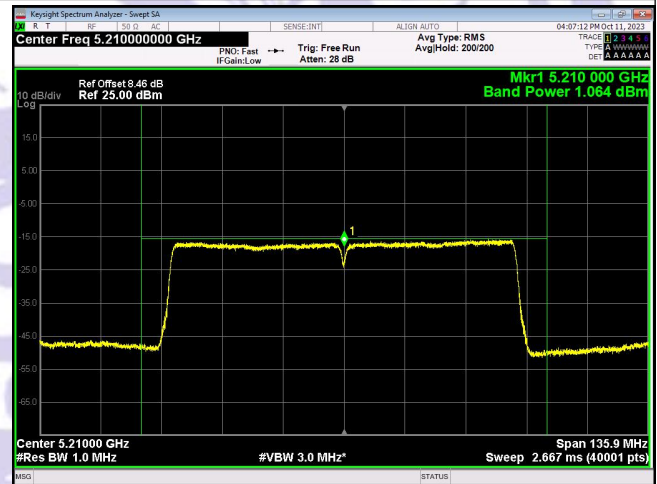
Conducted AVG output power IEEE 802.11ac_20_Channel 40_Antenna 0



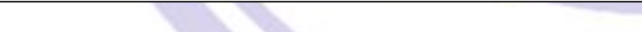
Conducted AVG output power IEEE 802.11ac_20_Channel 48_Antenna 0



Conducted AVG output power IEEE 802.11ac_40_Channel 38_Antenna 0

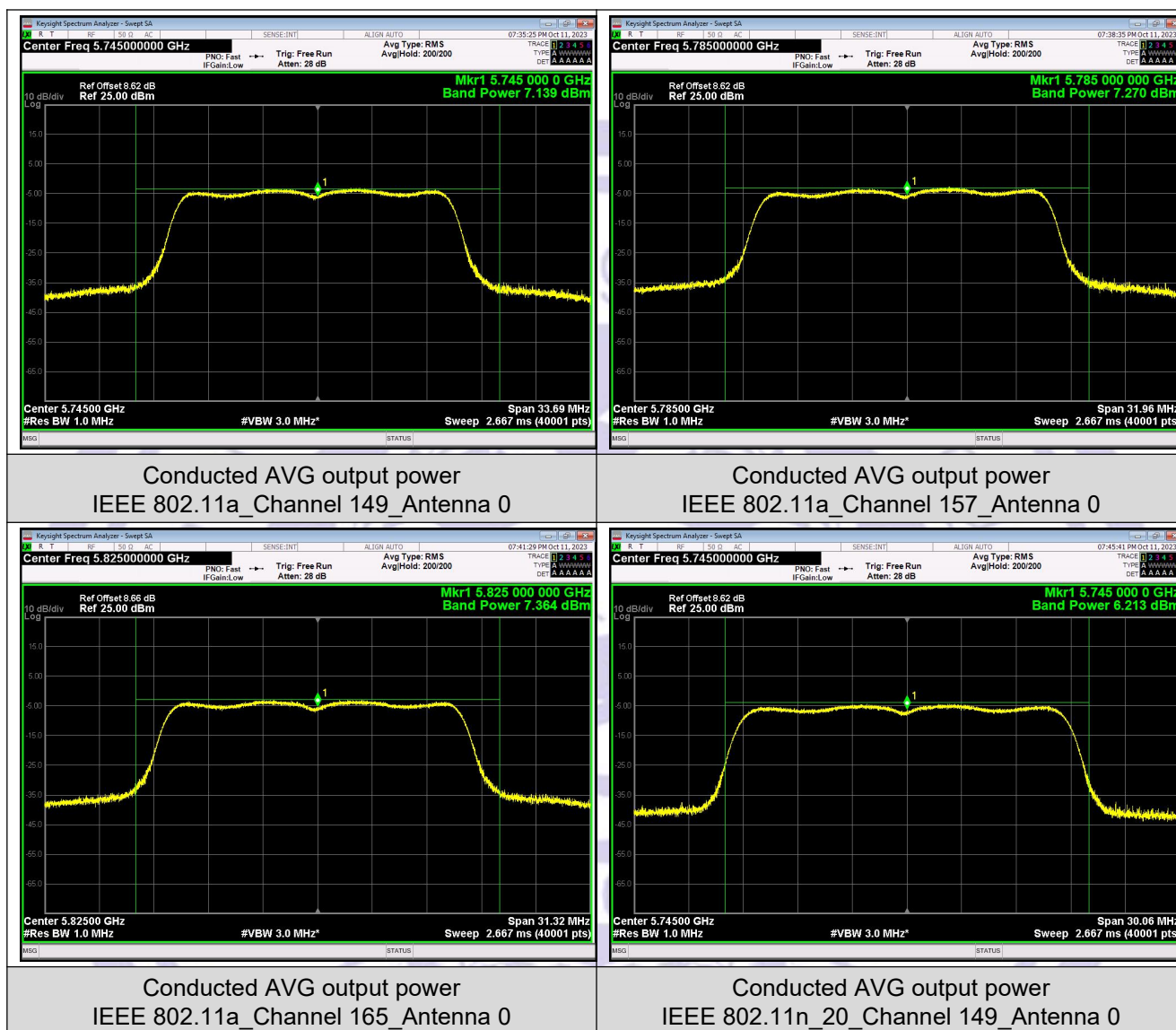


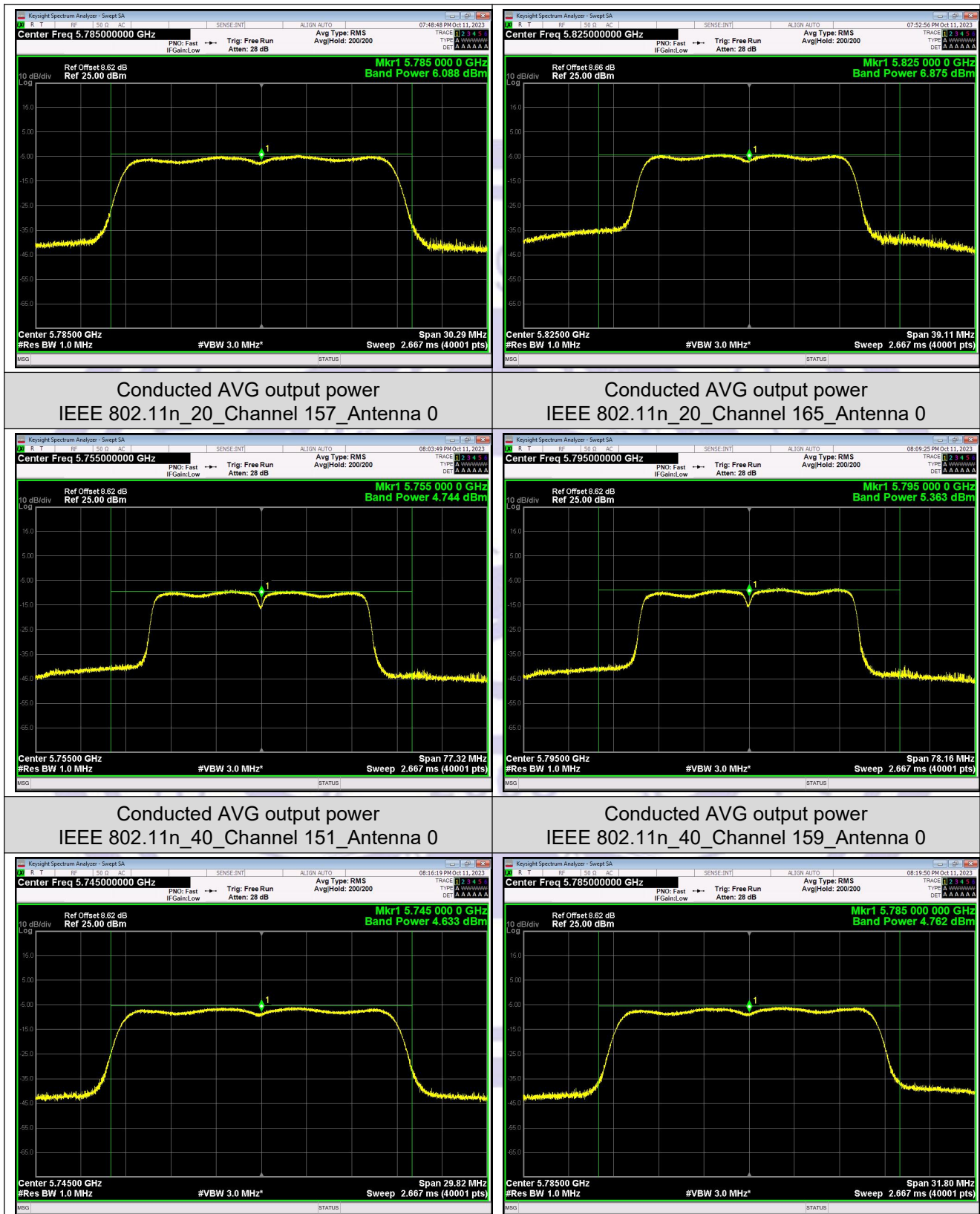
Conducted AVG output power IEEE 802.11ac_40_Channel 46_Antenna 0

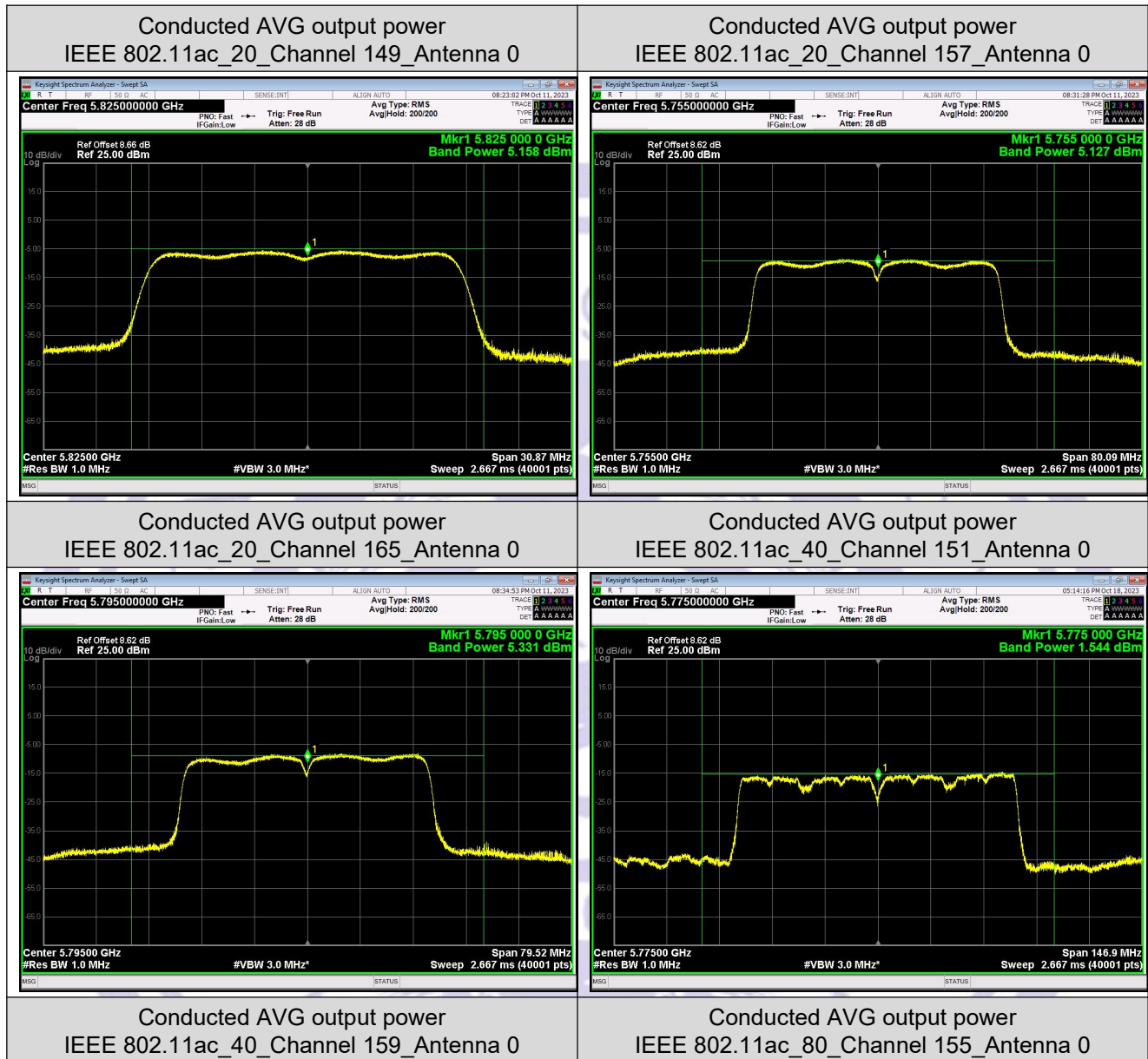


Conducted AVG output power IEEE 802.11ac_80_Channel 42_Antenna 0









11 Out of Band Emissions and Spurious Emission

11.1 Test Standard and Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

RSS-247 Section 6.2

Devices shall comply with the following:

All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or

All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text "for indoor use only."

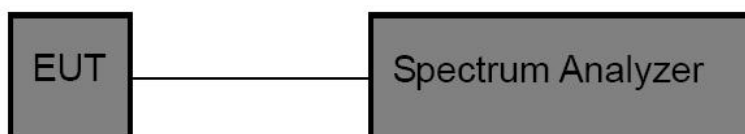
Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

11.2 Test Setup



11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

11.4 Test Data

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	36	0	2463.21	-35.816	-27	-8.820	PASS
			5149.92	-42.165	-27	-15	PASS
			5150.00	-42.165	-27	-15	PASS
			5350.00	-43.710	-27	-17	PASS
			5460.00	-42.038	-27	-15	PASS
			23157.8	-46.702	-27	-19.700	PASS
	40		2460.40	-40.880	-27	-13.880	PASS
			5149.92	-42.035	-27	-15	PASS
			5150.00	-42.035	-27	-15	PASS
			5350.00	-42.161	-27	-15	PASS
			5460.00	-42.038	-27	-15	PASS
			24086.3	-46.072	-27	-19.070	PASS
	48		2460.65	-44.023	-27	-17.020	PASS

			5149.92	-41.488	-27	-14	PASS
			5150.00	-41.488	-27	-14	PASS
			5350.00	-41.961	-27	-15	PASS
			5457.12	-41.620	-27	-15	PASS
			24526.9	-45.559	-27	-18.560	PASS
IEEE 802.11n_20	36		2463.21	-46.100	-27	-19.100	PASS
			5149.92	-42.640	-27	-16	PASS
			5150.00	-42.640	-27	-16	PASS
			5350.00	-41.898	-27	-15	PASS
			5450.40	-41.243	-27	-14	PASS
			24506.8	-46.112	-27	-19.110	PASS
	40		2460.27	-35.928	-27	-8.930	PASS
			5146.08	-41.562	-27	-15	PASS
			5150.00	-41.660	-27	-15	PASS
			5350.00	-42.156	-27	-15	PASS
			5460.00	-40.453	-27	-13	PASS
			24498.9	-46.534	-27	-19.530	PASS
	48		2479.85	-44.858	-27	-17.860	PASS
			5148.96	-41.943	-27	-15	PASS
			5150.00	-42.198	-27	-15	PASS
			5350.00	-41.495	-27	-14	PASS
			5453.28	-41.241	-27	-14	PASS
			24571.1	-45.893	-27	-18.890	PASS
IEEE 802.11n_40	38	5149.49	-29.555	-27	-2.550	PASS	
		5149.92	-38.496	-27	-11	PASS	
		5150.00	-38.496	-27	-11	PASS	
		5350.00	-42.443	-27	-15	PASS	
		5458.08	-42.106	-27	-15	PASS	

	46	24575.5	-45.768	-27	-18.770	PASS
		2461.29	-44.112	-27	-17.110	PASS
		5148.96	-42.257	-27	-15	PASS
		5150.00	-42.351	-27	-15	PASS
		5350.00	-40.983	-27	-14	PASS
		5398.56	-40.894	-27	-14	PASS
		24597.7	-46.533	-27	-19.530	PASS
IEEE 802.11ac_20	36	2460.27	-35.923	-27	-8.920	PASS
		5149.92	-42.606	-27	-16	PASS
		5150.00	-42.606	-27	-16	PASS
		5350.00	-40.129	-27	-13	PASS
		5371.68	-39.974	-27	-13	PASS
		24512.2	-46.390	-27	-19.390	PASS
	40	2463.60	-35.407	-27	-8.410	PASS
		5148.00	-42.056	-27	-15	PASS
		5150.00	-42.162	-27	-15	PASS
		5350.00	-42.745	-27	-16	PASS
		5459.04	-40.691	-27	-14	PASS
		24579.5	-46.429	-27	-19.430	PASS
	48	2460.65	-37.462	-27	-10.460	PASS
		5148.96	-42.360	-27	-15	PASS
		5150.00	-43.196	-27	-16	PASS
		5350.00	-42.099	-27	-15	PASS
		5458.08	-41.601	-27	-15	PASS
		24543.1	-46.263	-27	-19.260	PASS
IEEE 802.11ac_40	38	5148.08	-31.497	-27	-4.500	PASS
		5148.96	-40.017	-27	-13	PASS
		5150.00	-41.595	-27	-15	PASS

	46	5350.00	-42.173	-27	-15	PASS
		5460.00	-41.144	-27	-14	PASS
		24609.0	-46.134	-27	-19.130	PASS
		2461.04	-35.923	-27	-8.920	PASS
		5144.16	-41.681	-27	-15	PASS
		5150.00	-41.689	-27	-15	PASS
		5350.00	-40.559	-27	-14	PASS
		5393.76	-40.469	-27	-13	PASS
		24569.7	-45.773	-27	-18.770	PASS
		5121.07	-31.839	-27	-4.840	PASS
IEEE 802.11ac_80	42	5149.92	-41.649	-27	-15	PASS
		5150.00	-41.649	-27	-15	PASS
		5350.00	-42.241	-27	-15	PASS
		5368.18	-46.539	-27	-19.540	PASS
		5459.04	-41.851	-27	-15	PASS

